

## JOHN DEERE POWER SYSTEMS

EXECUTIVE ORDER U-R-004-0586 New Off-Road

Compression-Ignition Engines

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2020	LJDXL13.5314	13.5	Diesel	8000		
SPECIA	L FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION		
Injection	Air Cooler, Oxidation Cat , Exhaust Gas Recirculat urbocharger, Selective C Ammonia Oxidation	ion, Electronic Control atalytic Reduction-Urea.	Pump, Compressor, Generator Set, Other Industrial Equipment			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION		EXHAUST (g/kW-hr)				OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
- 4,500		CERT	0.06	0.04		0.03	0.02	-		

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

Allen Lyons, Chief

**Emissions Certification and Compliance Division** 

day of December 2019.

E0#: U-R-004-0586

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8/30/2019

## **Engine Model Summary Form**

Manufacturer: John Deere Power Systems Engine category: Nonroad CI EPA Engine Family: LJDXL13.5314 Mfr Family Name: 650HCC

		3. kW@RPM	4. Fuel Rate: mm/stroke@peak kW	5. Fuel Rate: (kg/hr)@peak kW	6. Torque (Nm) @RPM	7, Fuel Rate: mm/stroke@peak	8. Fuel Rate:	Emission Control     Device Per
1. Engine code	2. Engine Model	(SAE Gross)	(for diesel only)	(for diesels only)	(SEA Gross)	torque	(kW/hr)@peak torque	SAE J1930
6135HFG08A	6135	473@1800	360.1@1800	99.1@1800	1/		1	EGR OC BORD NHOOD DELTO DAD ECM
6135HFG06B	6135	427@1500	372.4@1500	85.4@1500		V	/	EGR OC SCRC NH3OC DFI TC CAC ECM
6135HPRNT4	6136	496@1800	384@1800	106@1800		THE RESERVE TO SERVE	Marine State of the State of th	TEGR OC SCRC NESOC DE TO CAC ECH A
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